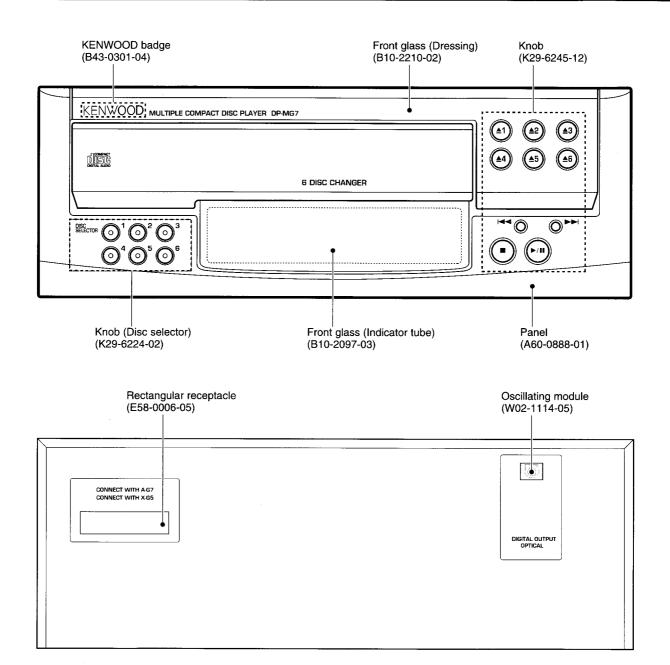
MULTIPLE COMPACT DISC PLAYER

DP-MG7 SERVICE MANUAL

(UD-755/825)

KENWOOD

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* Refer to parts list on page 22.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER: Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

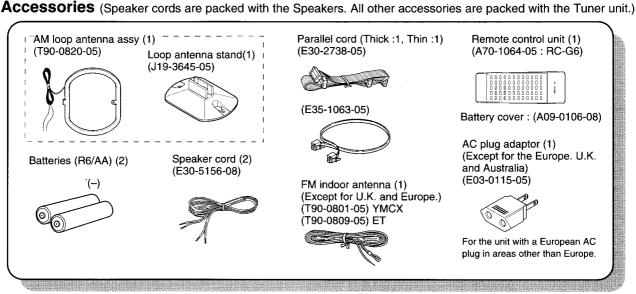
PRECAUTIONS FOR REPAIR

DP-MG7 does not have power supply transformer. Use **A-G7** or **PS-94UA** power supply to supply power.

CONTENTS / ACCESSORIES

Contents

CONTENTS / ACCESSORIES / CAUTION	PC BOARD13
	SCHEMATIC DIAGRAM
	EXPLODED VIEW
BLOCK DIAGRAM 7	PARTS LIST22
CIRCUIT DESCRIPTION8	SPECIFICATIONSBack cover
ADJUSTMENT 12	•



System configuration

System	Amplifier	Tuner	CD Player	Deck	Speaker	System Carton Box (Parts Mo.)
UD-705	A-G7	C-G7	DP-G7	X-G5	LS-G6	H60-0438-04 (M) / H60-0439-04 (C)
UD-755	A-G7	C-G7	DP-MG7	X-G5	LS-G6	H60-0436-04 (MXY) / H60-0437-04 (C)
UD-825	A-G7	C-G72	DP-MG7	X-G5	LS-G6	H60-0440-04 (M) / H60-0441-04 (C)

Caution

Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

- 1. Turn the power ON but do not load a disc.
- Press the ►/II key to check that no disc is present on the tray.
- 2. Wait a few seconds and verify that the display shown appears.



3. Turn the power OFF.

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity. When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

CONTROLS

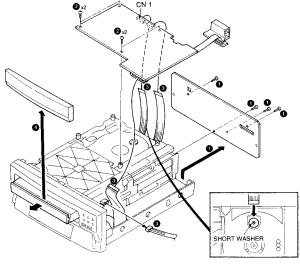
- SPACE indicator Program Check indicator -Time display SINGLE/TOTAL indicators **RANDOM** indicators Playing TRACK **EDIT** mode indicators NO. display Program indicator Disc number indicators PROGRAM RANDOM REPEAT DISC NO. SPACE P.C. TRACK NO. SINGLE TOTAL A B 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Play indicator ¦►II Pause indicator Track number indicators Display KENWOOD MULTIPLE COMPACT DISC PLAYER DP-MG7 (A2) **(4**) **(45)** disc 6 DISC CHANGER **OPP**I **Q**

- O Disc tray
- ② Disc selector keys(1-6)
- **6** Stop key
- Play/pause key

- Open/Close

1. HOW TO REMOVE CD MECHANISM ASSY

- 1. Remove 4 screws(1) and rear panel.
- 2. Remove 4 screws(2) and flat cable(3), and remove pcb(X32).
- 3. Remove and insert 16p flat cable from cn1 to short-washer on top of mechanism.
- 4. Remove front glass(4)
- 5. Remove 5 screws(6) and mechanism assy.



DISASSEMBLY FOR REPAIR

Fig. 1

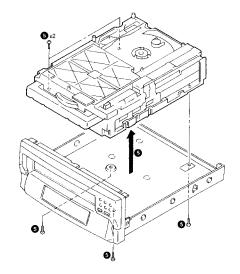


Fig. 2

2. HOW TO CHECK IN DISASSEMBLY

- 1. Remove 35p flat cable from cn4.
- 2. Remove 5 screws and pcb(X32)
- 3. Arrange each parts as figure 3.
- 4. Remove front panel assy
- 5. Connect 35p flat cable to cn4 on X32.
- 6. Check connection carefully before power on.

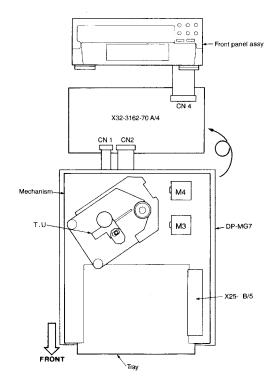


Fig. 3

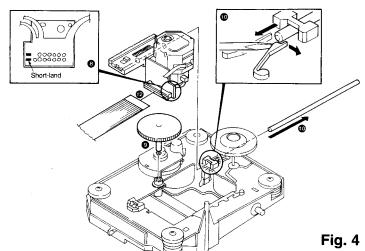
9 Skip keysPress to skip to the beginning do another track.

DISASSEMBLY FOR REPAIR

3. HOW TO REPLACE PICKUP

- 1. Remove guide-top and bracket-clamp with connecting 16p flat cable to short-wire.
- 2. Remove slide.
- 3. Remove 6p wire-harness from cn2, X25.
- 4. Short short-lands(3) on pickups pcb and remove16p flat cable(2).
- 5. Remove shaft(@) and replace pickup

Note: Don't pull out flat cable connected to short-washer after mechanism unit is fixed.



DISASSEMBLY FOR REPAIR

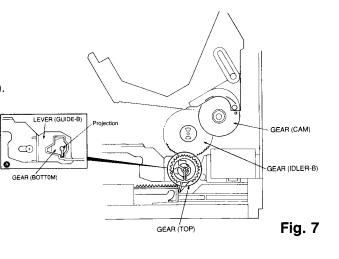
6. HOW TO MEET GEAR POSITION 6-1 GEAR-TOP/BOTTOM

stocker boss : down

md : up

lever-tray A: unlocked

- 1. Meet groove of lever-guide B with projection of gear-bottom((3)).
- 2. Load gear-top on it.

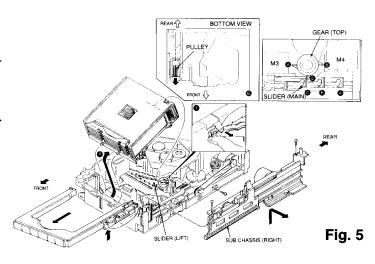


4. HOW TO REMOVE STOCKER

- 1. Pull out and remove tray.
- 2. Set gear-top to(**(3)**) position and turn worm gear front wards. stocker is top position(**(6)**).
- 3. Remove sub-chassis(RIGHT) with motor, M3

Note: Spread hook of slide-lift and remove boss(②) of stocker.

Next remove pull out back boss and stocker.



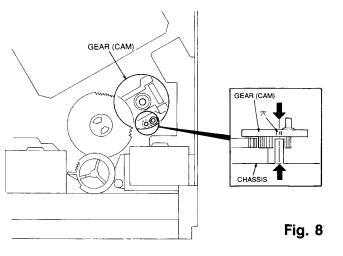
6-2 GEAR-CAM

stocker : down

md : down

lever-tray A : locked

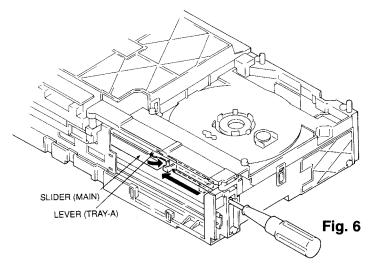
- 1. Meet hole of gear-cam with hole of chassis of main. Load gear-loads on it.
- 2. Load slider.



5.HOW TO OPEN TRAY IN MECHANISM JAM

- 1. Insert screw driver at rear hole of mechanism and push slider-main.
- 2. Release unlock of lever-tray A. Tray comes out if pushed slide-main more.

Note: You can open tray if insert driver to small hole of rear panel.



BLOCK DIAGRAM

IC6(2/2) 9 19 윤 1윤 DATA uPD78044AGF170 S F G KEY MATRIX PF0 FEO IC4(3/6) FEED MOTO DRIVER SW ED N. N. O.M. (S) M.O.

CIRCUIT DESCRIPTION

TEST MODE

1-1 MODE"00" : ADJUST/AUDIO CHECK

INPUT: Turn on with pressing DISC SELECTOR 1. Open DISC 1

INPUT KEY	DISPLAY	OPERATION	REMARKS
PLAY	05	Close tray and playback DSC 1 if in open mode. Playback DISC 1 if in stop mode. Change circuit if "03" mode. All servo are on.	By pressing key, display change to normal mode.
STOP	00	Change mode to STOP.	Same
UP	-	Display sycrical mode all light and unlight	Same
DOWN	03	Close tray and playback DSC1 if in open mode. Playback DISC 1 if in stop mode. Change circuit if "05" mode. Tracking servo is on. Focus and feed servo are off.	Same
DISC OPEN/ CLOSE1-6	00	Open or close tray 1 to 6. Change to STOP mode and open tray if DISC 1 open mode. Close tray if close mode only.	Same
DISC 4	05	FB operation (in playback mode only)	Same
DISC 5	05	FF operation (in playback mode only)	Same
DISC 6	00	Repair mode (refer to 1-2)	Same
DISC 3	-	Release TEST mode "00". Change to STOP mode. Not include Repair mode(1-2).	Same

1-2 REPAIR MODE FOR MECHANISM OPERATION/JAM

INPUT: 1. Turn on with pressing DISC SELECTOR 6
2. Chane to REPAIR MODE if press DISC SELECTOR 6 in TEST "00" mode.

INPUT KEY	DISPLAY	OPERATION	REMARKS
DISC 1	00	M3 motor works as OPEN in pressing the key	
DISC 2	00	M3 motor works as CLOSE in pressing the key	
DISC 4	00	M4 motor works as UP in pressing the key	
DISC 5	00	M4 motor works as DOWN in pressing the key	

Note: DISC1,2,4, and 5 are available for above test mode.

CIRCUIT DESCRIPTION

1-3 MECHANISM ERROR MODE

INPUT: Turn on with pressing PLAY key. Mechanism operation is initialized and operation is stop if not work normally. Display has error numbers.

Change to normal mode if initialization is no problems.

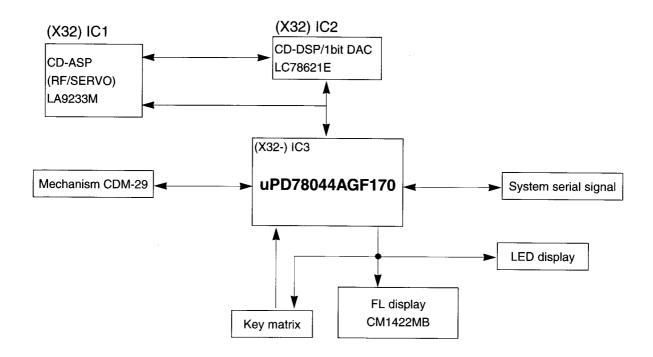
DISPLAY	Err mode	Error	Remarks
Err 01	OPEN	Open operation doesn' t work/Open switch doesn't work.	
Err 02	CLOSE	Close operation doesn't work/Close switch doesn't work.	
Err 03	MD UP	MD up operation doesn't work/Slider doesn't stop at MD up position	
Err 04	MD DOWN	MD down operation doesn't work/Slider doesn't stop at MD down position	
Err 05	LIFT UP	Lift up operation doesn't work/Disc count switch doesn't work	
Err 06	LIFT DOWN	Lift down operation doesn't work/Disc count switch doesn't work	
Err 07	LOAD	Load operation doesn't work/There is no MD at down position/Single tray in switch doesn't works	
Err 08	STORE	Store operation doesn't work/There is no MD at down position/Single tray out switch doesn't work.	
Err 09	HOME POS	Lift down operation doesn't work/Home position switch doesn't work.	
Err 10	CLOSE or MD DOWN	Slider doesn't work in close mode/Close and T. U. down switches don't work.	
Err 11	COUNT	Mis-count disc.	

1-4 MECHANISM INITIALIZATION MODE

INPUT: Turn on with pressing STOP key. Return open/close slider to close position at full top stocker position. Next Return load slider to store position at full bottom position. Change to normal mode if mechanism has no troubles.

CIRCUIT DESCRIPTION

- 2. Microprocessor: uPD78044AGF170 (X32-,IC3)
- 2-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

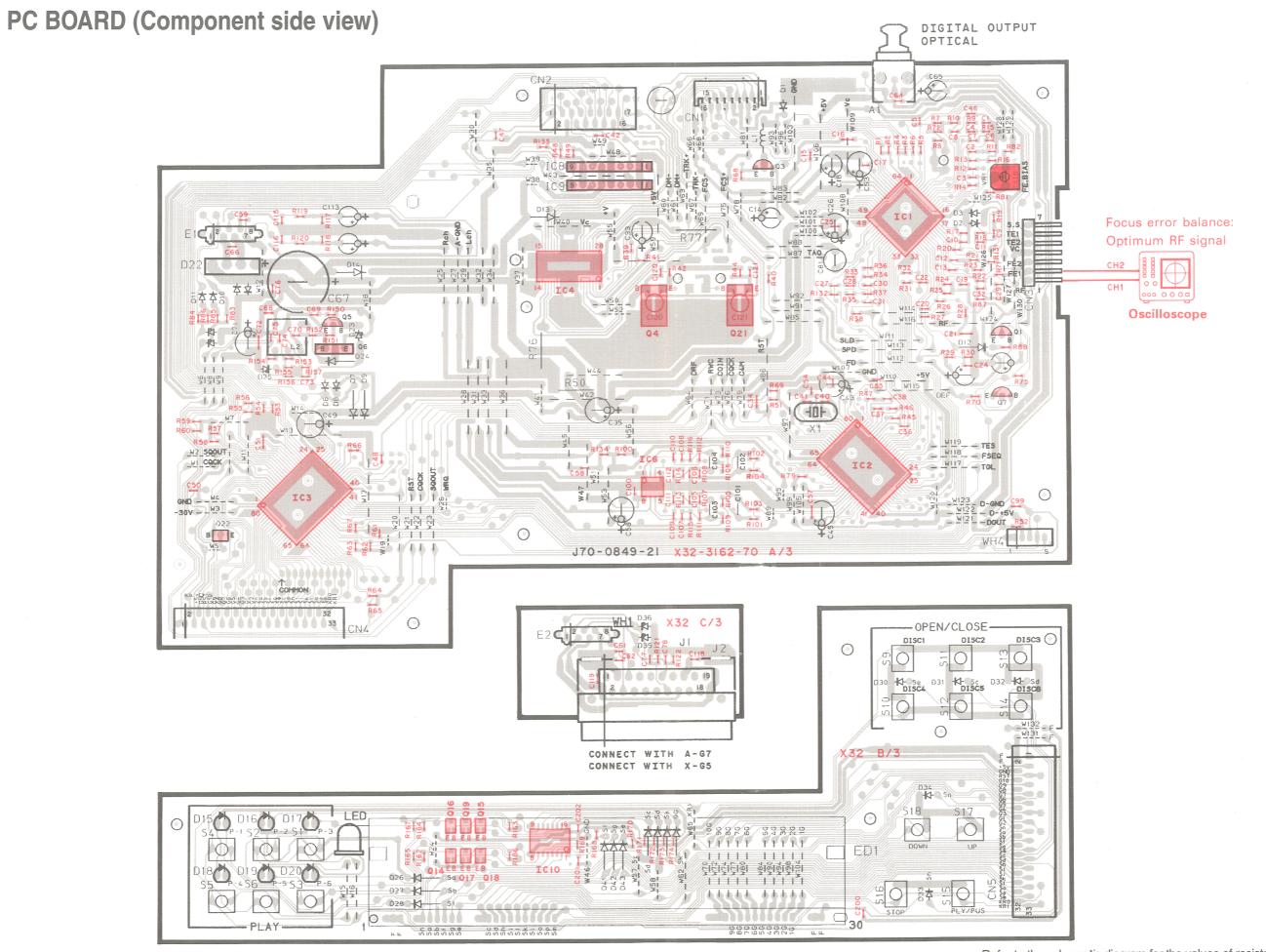
PIN NO.	PIN NAME	1/0	DESCRIPTION
1-7	4G-10G	0	Display grid output
8	+5V	_	Power supply
9	CQCK	0	Clock output for DSP
10	NC NC	0	No use
11	SQOUT	ı	Q data input for DSP
12	/SLTSW	1	Start limit sw input(L : LIMIT)
13	/T.CLOSE	'	Tray close sw input(L : CLOSE)
14	/H POS	1	Home position detection sw input(L :HOME)
15	/D.CNT	<u> </u>	Disc count(height) detection sw (H : height ok)
-			
16 17	/T. DOWN /RESET	0	Change Vref in TU-DOWN
		 -	Reset port
18	/S. TRAY OUT	1 !	Tray-out detection sw (L : STORE)
19	/S.TRAY IN	1	Tray-in detection sw (L : LOAD)
20	GND		AD gnd
21	/S.TRAY ON	1	Tray-on detection sw(L : tray)
22	/T.U. DOWN	1	TU-DOWN detection sw
23	MOTOR3 (OPEN)	0	Load motor
24	MOTOR4 (DOWN)	0	Load motor
25	MOTOR1 (UP)	0	Tray motor
26	MOTOR2 (CLOSE)	0	Tray motor
27	S.BUSY	I/O	Serial busy port
28	S.DATA	I/O	Serial data port
29	AVdd	_	AD power supply(+5V)
30	AVref	_	AD standard voltage(+5V)
31	GND		GND
32	NC	0	No use
33	VSS		
34,35	X1,2	_	Clock input
36-40	NC		GND
	-	-	
41	DRF		ASP focus ok port
42	COIN	0	SAP micon data out
43	RWC	0	DSP micon busy out
44	SL+	0	ASP feed to inwards
45	SL-	0	DSP feed to outwards
46	WRQ	ı	DSP Q-data synchro port
47	TES	l	Tracking error
48	Vss	_	GND
49	FSEQ	_	DSP EFM synchro port
50	FON	0	F-out offset
51	TGL	I	Change tracking gain
52	Vdd	_	+5V
53	/D.DET	ı	Disc detection(L : disc)
54	/T.OPEN	I	Tray open sw
55	/C.BOS	ı	Disc mis-load sw (L : BOS UP)
56-58	NC	0	No use
59,60	KR1,0	1	Key return input 1 and 0
61-66	SEG16-11	0	Display segments
67-70	SEG 10-7	0	Display segments/key scan
71	Vload		Display Power supply (-30V)
72-77	SEG6-1	0	Display segments/key scan

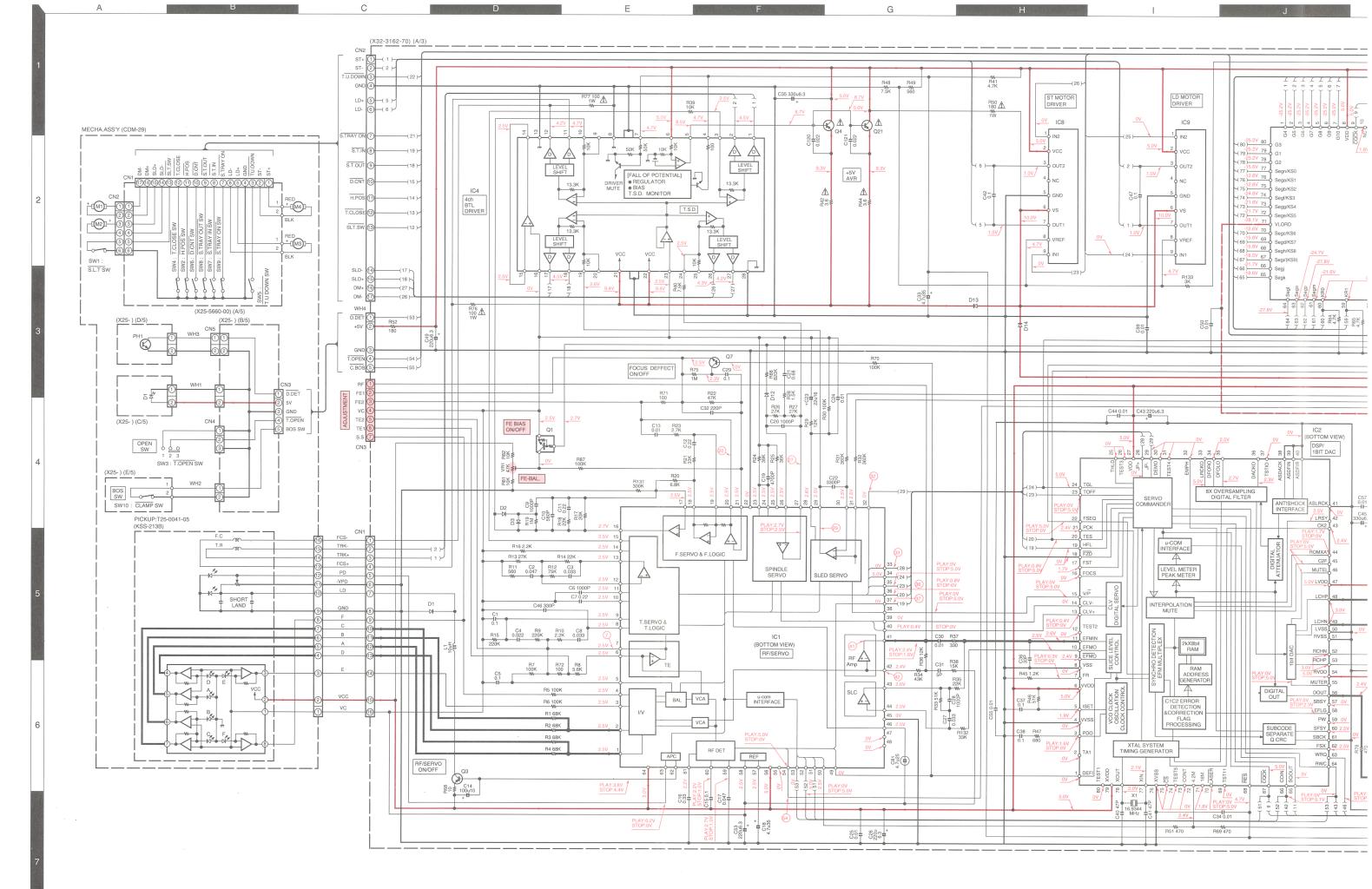
ADJUSTMENT

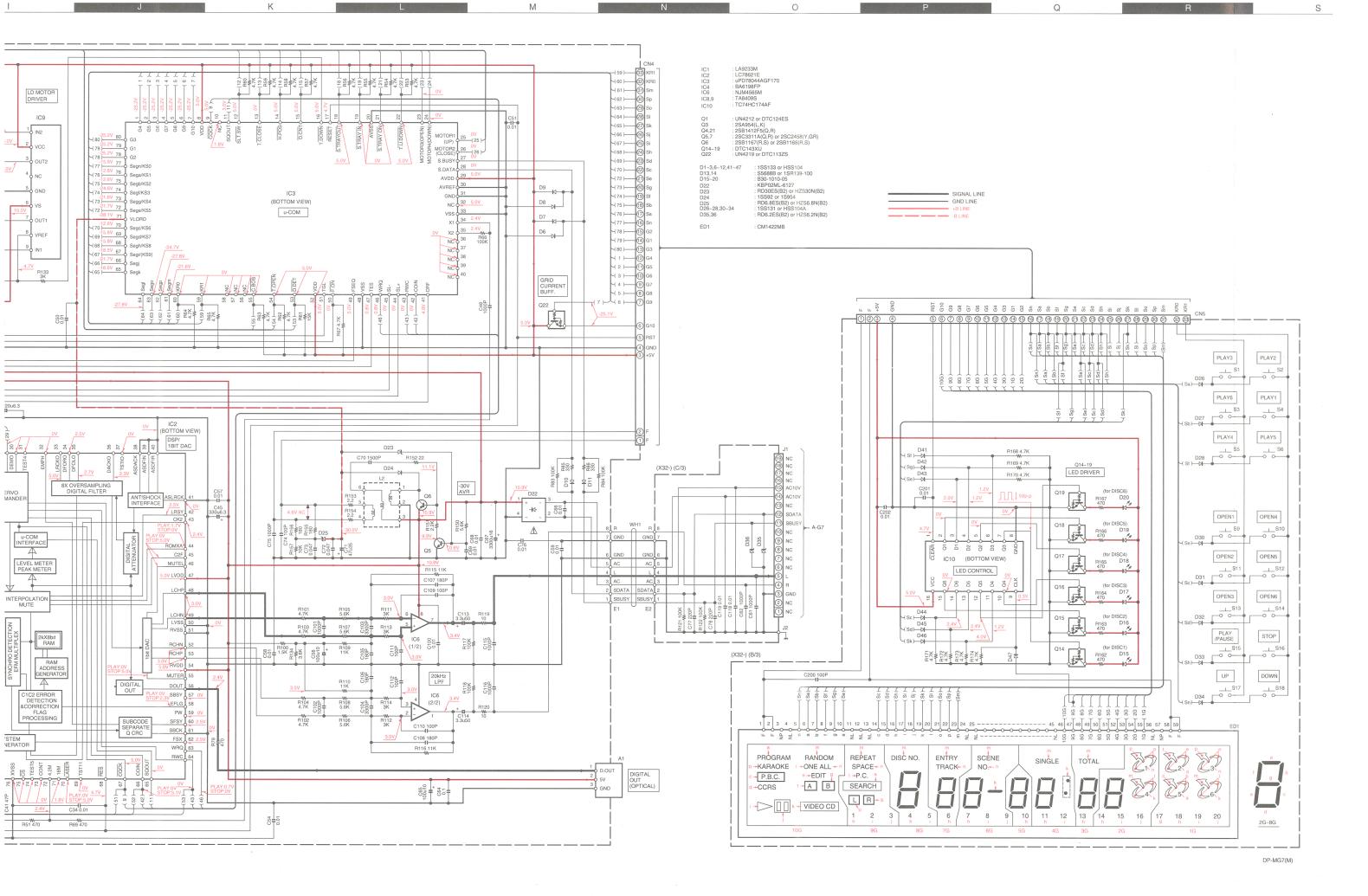
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3 pin 1) CH2: FE(CN3 pin 2)	Set the unit to test mode. Press the PLAY key, then confirm that the display is "05".	FE BALANCE VR1	Optimum eye pattern	

Type 4 disc : SONY YEDS-18 Test Disc or equivalent.

Step 1 is in Test Mode. (Test Mode: Turn power on with pressing "Disc 1" key.)







Q

10

12 13 16 17 18 19

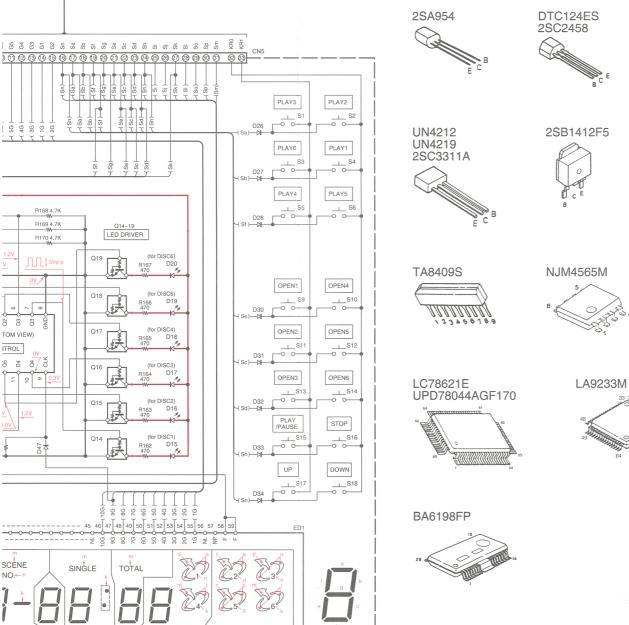
14 15 S

U

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to

the customer.

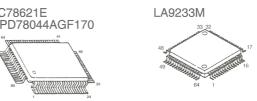
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.



2G~8G

DP-MG7(M)

DTC143XU 2SB1167 2SB1168

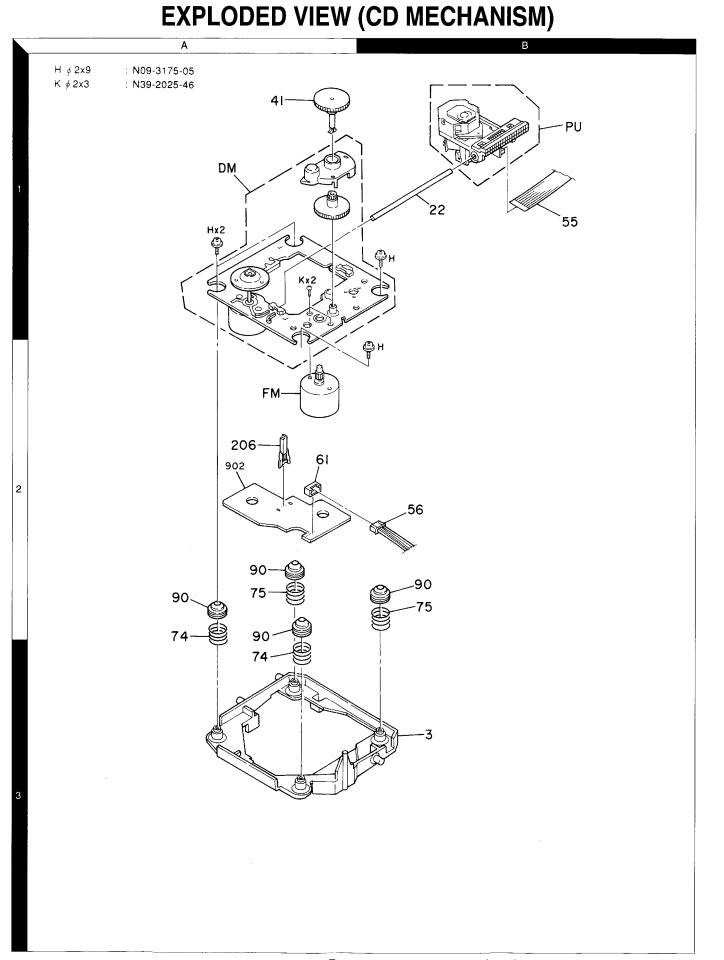


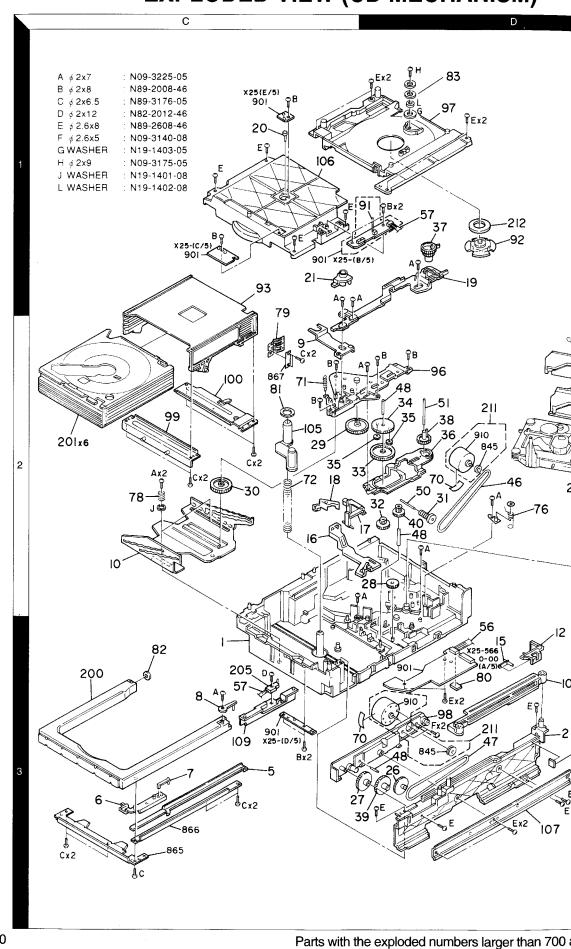


Y22-4472-70

DP-MG7 DP-MG7

EXPLODED VIEW (CD MECHANISM)

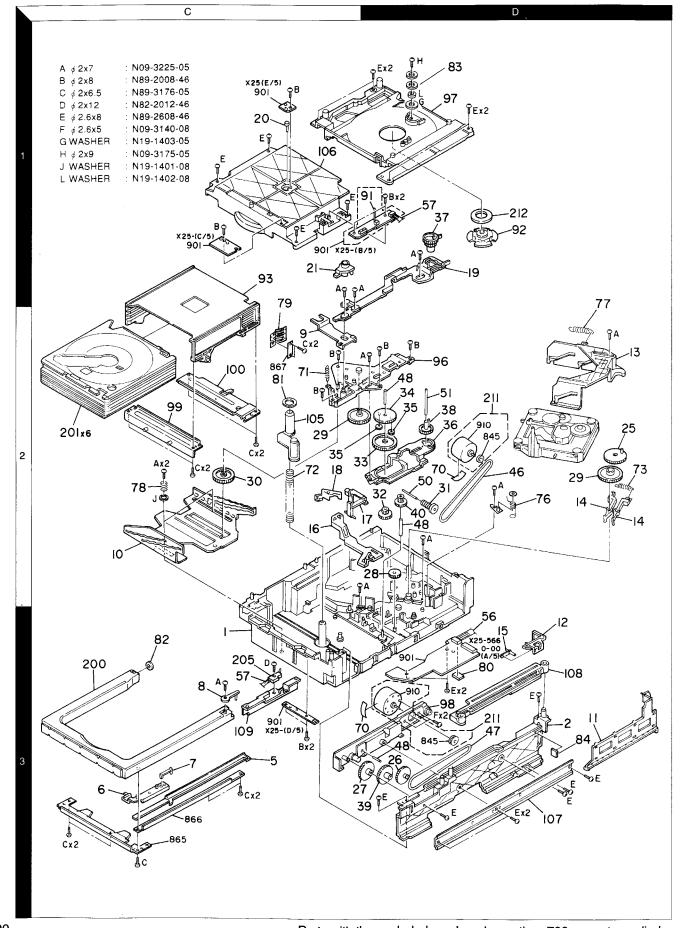


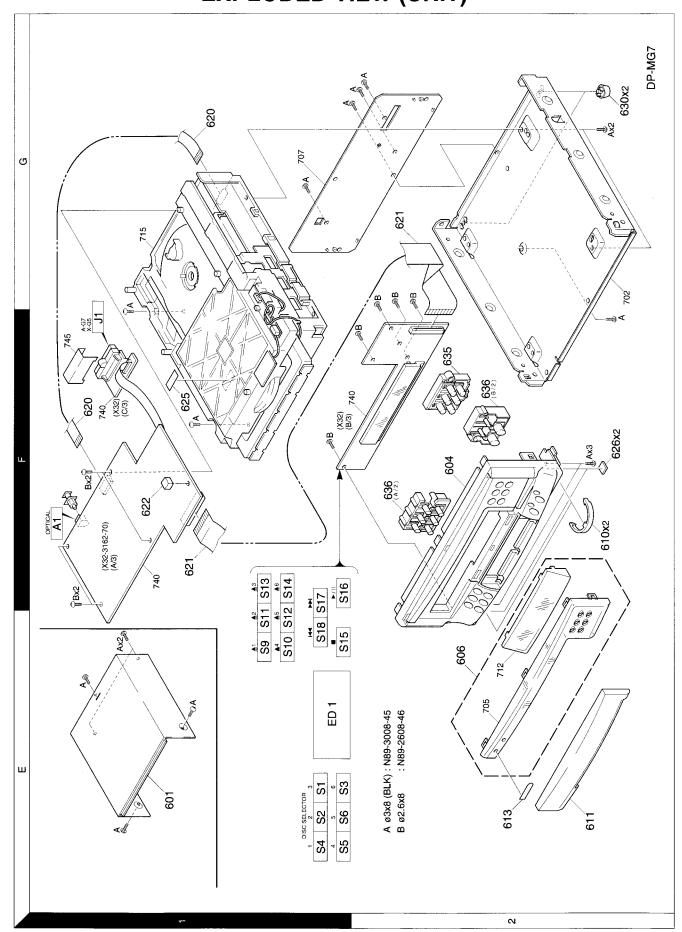


DP-MG7

EXPLODED VIEW (CD MECHANISM)

EXPLODED VIEW (UNIT)





PARTS LIST

 Δ indicates safety critical components.

 ${f \Delta}$ indicates safety critical components.

Re- marks											
Desti- nation											
	X-XX10 W0	ххх 35W У	*****	6.37 3W 5	C J 35WV K 6.3WV	¬∀¬∀9 30 30	X0.JXX W S	6.3WV 6.3WV 6.3WV	5 8 5	10W X X X X X X	35W X X X X
Description	1000PF 560PF 0.22UF 0.010UF 100UF	0.10UF 0.33UF 0.047UF 4.7UF 4700PF	1000PF 0.68UF 3300PF 22UF 0.010UF	220UF 0.033UF 1000PF 0.10UF	5.0PF 220PF 4.7UF 0.010UF 330UF	33PF 0.10UF 47PF 0.10UF 220UF	0.010UF 330UF 330PF 0.10UF 1000PF	220UF 0.010UF 0.010UF 220UF 0.010UF	100UF 0.010UF 0.010UF 0.10UF	100UF 0.010UF 3300UF 0.010UF 1500PF	47UF 0.047UF 0.047UF 1000PF 0.010UF
	CHIP C CHIP C CHIP C CHIP C ELECTRO	OHP COHP COHP COHP COHP COHP COHP COHP C	OHP COHP COHP COHP COHP COHP COHP COHP C	CHECTRO CHIP COLING CHIP COLING CHIP COLING	CHIP C CHIP C ELECTRO CHIP C ELECTRO	OHIP C CHIP C CHIP C CHIP C ELECTRO	CHIP C CHIP C CHIP C CHIP C CHIP C	ELECTRO CHIP C CHIP C ELECTRO CHIP C	OTTP COTTP C	ELECTRO CHP C ELECTRO CHP C CHP C	ELECTRO CHIP C CHIP C CHIP C CHIP C
Parts No.	CK73FB1H102K CC73FSL1H561J CK73FB1C224K CK73FB1H103K CE04LW1A101M	CK73FB1E104K CK73EB1C334K CK73FB1H473K CE04LW1V4R7M CK73FB1H472K	CK73FB1H102K CK73EB1C684K CK73FB1H332K CE04LW1C220M CK73FB1H103K	CE04LW0J221M CK73FB1H333K CK73FB1H102K CK73FB1E104K CK73FB1E104K	CC73FCH1H050C CC73FCH1H221J CE04LW1V4R7M CK73EB1H103K CE04LW0J331M	CC73FCH1H330J CK73FB1E104K CC73FCH1H470J CK73FB1E104K CE04LW0J221M	CK73FB1H103K CE04LW0J331M CC73FCH1H331J CK73FB1E104K CK73FB1H102K	CE04LW0J221M CK73FB1H103K CK73EB1H103K CE04LW0J221M CK73FB1H103K	CE04LW1A101M CK73EB1H103K CK73FB1H103K CK73FB1H102K CK73FB1H102K	CE04LW1A101M CK73FB1H103K CE04LW1C332M CK73FB1H103K CK73FB1H103K	CE04LW1V470M CK73EB1H473K CK73FB1H473K CK73FB1H102K CK73FB1H103K
Add- New ress Parts											
Ref. No	C9 C10 C11,12 C13	015 016 018 018	C20 C21 C22 C23 C24 ,25	C26 C27 C28 C29 C30	C32 C33 C34 C34	C36 C37,38 C40,41 C42	044 045 047 047	C49 C50 C51 C53 C54 ,55	056 057 058 ,59 061 ,62 064	C65 C66 C67 C68 ,69 C70	C71 C72 C73 C74 .75 C76

Ref. No	Add- ress	New Parts	Parts No.	Description		Desti- nation	Re- marks
				DP-MG7			
601 603 604	###	***	A01-3304-01 A29-0813-02 A60-0888-01	METALLIC CABINET PANEL (PRONT)	NG)		
610 611 612 613	2E 2	*	B07-2268-24 B10-2097-03 B10-2210-02 B43-0301-04 B46-0310-03	ESCUTCHEON (FORE FE FRONT GLASS (INDICAT) FRONT GLASS (INDICAT) FRONT GLASS (DRESSIN KENWOOD BADGE WARRANTY CARD	(FORE FEET) (INDICATOR TUBE) (DRESSING)		
		*	B58-1507-00	CAUTION CARD			
620 621	##	* *	E35-1348-05 E35-1410-05	FLAT CABLE (17P/MEC FLAT CABLE (33P)	(17P/MECHANISM) (33P)		
622 625 626	# <u>#</u> #	*	G11-2251-04 G10-0173-04 G11-2243-04	CUSHION NON-WOVEN FABRIC CUSHION (FORE FEET)	ΞΕT)		
		* * *	H10-7181-12 H10-7182-02 H20-0576-04 H25-0681-04 H50-1891-04	POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE PROTECTION COVER PROTECTION BAG (MIRROR MAT) EYXT ITEM CARTON CASE	KTURE KTURE RMAT) EYXT	MC	
		* *	H50-1892-04 H50-1893-04	ITEM CARTON CASE (SLEEVE)	ΘΘ	Ω× X₩	
930	5G		J02-0366-15	FOOT (HIND FEET)	ET)		
635 636 637	22 7 7 7		K29-6225-02 K29-6225-03 K29-6245-12	KNOB (DISC SELECTOR) KNOB (PREV/NEXT/RETURN/SELECT)	(LECTOR)		
5			SIR-33ST3	INFRARED LED			
CON CON CON CON CON CON CON CON CON CON	88558		E40-4197-05 E40-3264-05 E40-3263-05 E40-4972-05 E40-3260-05	FLAT CABLE CONNECTOR (1 PIN ASSY (6P) PIN ASSY (3P) PIN ASSY (3P)	(17P)		
			J11-0808-05	WIRE CLAMPER			
SW2 SW4 -8 SW9,10			S40-1140-05 S68-0025-05 S40-1140-05	PUSH SWITCH PUSH SWITCH PUSH SWITCH			
H.			RPT-38PT3F	PHOTO TRANSISTOR			
			CD PLAYE	R UNIT (X32	-70)		
D15 -20			B30-1010-05	LED (SLP-281F-50U)	F-50U)		
28848			CK73FB1E104K CK73FB1H473K CK73FB1H333K CK73FB1H223K CK73FB1E104K	OHIP C 0.47UF C 0.031UF C 0.022UF CHIP C 0.022UF CHIP C 0.022UF CHIP C 0.022UF	****		
8248			CK73FB1H102K CK73FB1C224K CK73FB1H333K	CHIP C 1000PF CHIP C 0.22UF CHIP C 0.033UF	ス スス		
L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)	avia ast, Hav Europe)	waii)	K:USA P: T:Europe E: X:Australia M	: Canada R : Mexico : Europe G : Germany : Other Areas C : CHINA			
Y: AAFES(E	Europe)	5	X: Australia M	Areas C: CHINA	3	***************************************	indicates safety critical components

PARTS LIST

Parts Parts	Parts No.	72.1	<u>ر</u>	Description 4 7K	-	1/10W
RK73FB2A3R6J RK73FB2A3R6J RK73FB2A3R6J RK73FB2A122J RK73FB2A513J	2A3	222 132 132	COHIPPER REPORTED TO THE PROPERTY OF THE PROPE	33.5 5.00 7.7 7.00 7.00 7.00 7.00 7.00 7.0	הררנ	1/10w W01/1
RK73FB2A681J RK73FB2A752J RK73FB2A561J RS14KB3A181J RK73FB2A471J	22A6 22A7 22A5 33A1	81J 52J 61J 81J 71J	CHIP R CHIP R CHIP R FL-PROOF RS CHIP R	680 7.5K 560 180 470	7777	1/10W 1/10W 1/10W 1/1
RK73FB2A181J RK73FB2A472J RK73FB2A153J RK73FB2A472J RK73FB2A472J RK73FB2A104J	22A1	81J 72J 53J 72J 04J	OHIP R OHIP R OHIP R R R R R R R R R R	4.74 4.74 157 100 100 100	7777	01/1 001/1 001/1 001/1 001/1
RK73FB2A472J RK73FB2A100J RK73FB2A471J RK73FB2A104J RK73FB2A104J	32A4 32A4 32A1 32A1	72.7 000.7 1.1.7 04.1	OHIP R OHIP R OHIP R R R R R R	4.7K 10 100 100K 100	7777	01/1 001/1 001/1 001/1 001/1
RK73FB2A105J RS14KB3A101J RK73FB2A471J RK73FB2A103J RK73FB2A103J RK73FB2A104J	32A1 32A1 32A1 32A1	05J 01J 03J 04J	CHIP R FL-PROOF RS CHIP R CHIP R CHIP R	1.0M 100 10K 10K	2222	W1 W1 1/10W W01/1
RK73FB2A331J RK73FB2A104J RK73FB2A824J RK73FB2A152J RK73FB2A152J RK73FB2A472J	22A3 22A1 32A1 32A1	31.0 04.1 24.1 72.1	OHIP B B B B B B B B B B B B B B B B B B B	330 100K 1.5K 1.5K 4.7K	הנכננ	1/10W 1/10W 1/10W 1/10W
RK73FB2A562J RK73FB2A113J RK73FB2A302J RK73FB2A113J RK73FB2A113J	282 283 281 281	62 13 13 64 13	OOHID B B B B B B B B B B B B B B B B B B B	3.5. 3.0. 1.3.0. 1.00.	7777	1/10w 1/10w 1/10w 0/1
RK73FB2A100J RK73FB2A104J RK73FB2A304J RK73FB2A333J RK73FB2A333J RK73FB2A332J	2A3 2A3 2A3	23.25 25.25	CHIP B CHIP B CHIP B CHIP B CHIP B	100K 330K 3.0K	7777	1/10W 1/10W 1/10W 1/10W
RK73FB2A362J RK73FB2A562J RK73FB2A222J RK73FB2A220J RK73FB2A220J	32A5 32A5 32A2 32A2	62J 22J 20J R2J	OOHIP R OOHIP R R R R R R R R R R R	22.25.55.5 22.25.55.55.55.55.55.55.55.55.55.55.55.5	7777	01/1 001/1 001/1 001/1 0001/1
RK73FB2A181J RK73FB2A103J RK73FB2A471J RK73FB2A472J RT2-3688-05	32A1 32A1 32A4 32A4 88-05	81.1 03.2 77.1 77.2	CHIP R CHIP R CHIP R CHIP R TRIMMING POT.	180 10K 470 4.7K (47K)	7777	1/10W 1/10W 1/10W
S70-0031- S70-0031	31-05		TACT SWITCH TACT SWITCH (OI	(PLAY1-6) (OPEN/PAUSE/STOP)	s) E/ST(- (A)
HSS104 1SS133			DIODE			

Re- marks												
Desti- nation												
		2 × × × × × × × × × × × × × × × × × × ×		(A6	AHZ)	1/10W 1/10W 1/10W 1/10W	1/10W 1/10W 1/10W 1/10W	W01/1 W01/1 W01/1	1/10W 1/10W 1/10W 1/10W	7,1,10W 01,110W 01,10W 01,10W	7,10W 1,10W 1,10W 0,1/1	1/10W 1/10W
	ンのスンン	ᅩᅩᄶᇰᅐᅐ	スコス	17P) 33P) LE (1	OUH, ERTE 93441	7777	7777	7777	7777	77777	2222	777
Description	220PF 4.7UF 0.010UF 1000PF 3300PF	180PF 100PF 3.3UF 1000PF 0.010UF	0.022UF 100PF 0.010UF	CONNECTOR CONNECTOR (7P) CONNECTOR (R	INDUCTOR (1) ER FOR CONV SONATOR (16.)	68K 100K 5.6K 220K 2.2K	560 75K 22K 22K 220K	2.2K 2.2K 1.0M 6.8K	33K 47K 22.7K 39K 36K	27K 1.5K 12K 100K 360K	51K 43K 22K 12K 330	15K 10K 7.5K
	CHIP C NP-ELEC CHIP C MYLAR MYLAR	CHIP C CHIP C CHIP C CHIP C CHIP C	OCHIP OCHIP OOO	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR (17P) PIN ASSY FLAT CABLE CONNECTOR (33P) RECTANGULAR RECEPTACLE (19P)	SMALL FIXED INDUCTOR (10UH,K) TRANSFORMER FOR CONVERTER CRYSTAL RESONATOR (16.9344MHZ)	00000 HHHHH FEERE EEEEEE			00000 00000 000000 0000000000000000000	OCHIP COHIP CHIP RRRRR RRRRR	OOH P P P P P P P P P P P P P P P P P P P	OHIP R R R R R R
Parts No.	CC73FCH1H221J CE04HW1E4R7M CK73FB1H103K CQ93FMG1H102J CQ93FMG1H332J	CC73FCH1H181J CC73FCH1H101J CE04LW1H3R3M CK73FB1H102K CK73FB1H103K	CK73FB1H223K CC73FCH1H101J CK73FB1H103K	E40-4997-05 E40-4942-05 E40-4979-05 E40-4958-05 E58-0006-05	L40-1001-17 L19-0076-05 L77-1164-05	RK73FB2A683J RK73FB2A104J RK73FB2A562J RK73FB2A224J RK73FB2A22J	RK73FB2A561J RK73FB2A753J RK73FB2A273J RK73FB2A223J RK73FB2A224J	RK73FB2A222J RK73FB2A203J RK73FB2A223J RK73FB2A105J RK73FB2A682J	RK73FB2A333J RK73FB2A473J RK73FB2A272J RK73FB2A393J RK73FB2A363J	RK73FB2A273J RK73FB2A152J RK73FB2A123J RK73FB2A104J RK73FB2A364J	RK73FB2A513J RK73FB2A433J RK73FB2A223J RK73FB2A123J RK73FB2A331J	RK73FB2A153J RK73FB2A103J RK73FB2A752J
New Parts				* * *								
Add- ress				5								
Ref. No	C77 ,78 C81 C99 ,100 C101,102 C103,104	C105-108 C109-112 C113,114 C115,116 C115,116	C120,121 C200 C201,202	CN2 CN2 CN3 E,	222	R1 -4 R5 -7 R8 R9 R10	R112 R13 R15 R15	R16 R17 R19 R20	R21 R22 R23 R24 R25	R26 ,27 R28 R29 R30 R31 ,32	R33 R34 R35 R36 R37	R38 R39 R40

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.

Re- marks		***											
Desti- nation													
Description	(LOADING) (UP/DOWN) (UP/DOWN) (LIMIT) (SWITCH LOAD)	(TRAY-B) (STOCK SWITCH) (GUIDE-B) (SWITCH) (GUIDE-C)	(GEAR) (PULLEY) (FINAL-A) (IDLER-A)	(IDLER-B) (FINAL-B) (PULLEY) (SUN) (INTERNAL)	(CARRIER) (PLANET) (BRAKE) (TOP) (BOTTOM)	(IDLER-C) (HELICAL) (A) (B)	(PULLEY) (WORM) (CAM GEAR)	(16P) ESS (6P) ESS (2P) (6P)	PRING (A) N SPRING (A) PRING (B)	N SPRING (C) ING PRING N SPRING (D) (C)	(B) (TRAY-B) (C) (D)		: Mexico : Germany
	LEVER SLIDER ARM LEVER LEVER	LEVER LEVER ARM LEVER	ROD CAM GEAR GEAR GEAR	GEAR GEAR WORM GEAR GEAR	GEAR GEAR RACK GEAR GEAR ASSY	GEAR GEAR GEAR BELT BELT	SHAFT SHAFT SHAFT	FLAT CABLE WIRING HARNES WIRING HARNES PIN ASSY	SOFT TAPE EXTENSION SPRING COMPRESSION SPRING EXTENSION SPRING COMPRESSION SPRING (6	COMPRESSION SPRING ((TORSION SPRING EXTENSION SPRING COMPRESSION SPRING (FLAT SPRING (C)	CUSHION SHEET CUSHION CUSHION	INSULATOR STYLE PIN	Canada R: Europe G: Other Areas
rans No.	D10-3562-08 D10-3565-08 D10-3566-08 D10-3578-08 D10-3579-08	D10-3580-08 D10-3581-08 D10-3582-08 D10-3600-08 D10-3605-08	D10-3606-08 D12-0152-08 D13-1690-08 D13-1691-08 D13-1692-08	D13-1693-08 D13-1694-08 D13-1696-08 D13-1697-08 D13-1698-08	D13-1699-08 D13-1700-08 D13-1701-08 D13-1702-08 D13-1737-08	D13-1706-08 D13-1719-08 D13-1720-08 D16-0383-08 D16-0388-08	D21-1794-08 D21-1796-08 D21-1797-08	E35-1147-08 E35-1148-08 E35-1162-05 E40-3264-05	G01-0192-04 G01-3780-08 G01-3781-08 G01-3782-08 G01-3799-08	G01-3800-08 G01-3825-08 G01-3826-08 G01-3847-08 G02-1079-08	G13-0521-08 G13-0522-08 G16-0821-04 G13-0523-08 G13-0525-08	J02-1133-08 J11-0098-05	K:USA P: T:Europe E: X:Australia M:
£								O					vaii)
ress	88888	88555	#8888	200 200 200 200 200 200 200 200 200 200	20,20 20,20 20 20 20 20	307408	20,3D 2D 2D 2D	18 28,3D 10,3 2A	8 8 8 8 8 8 8 8	2A,2B 2D,2B 1C 1C	85855	2A,2B 1D	ivia ast, Hav
Ref. No	21 21 21 21 21 21	17 18 19 21	22 22 24 24 28	38238	34 35 37 38	39 40 41 47	48 50 51	55 56 57 61	70 71 72 73	75 77 78 79	80 81 82 83 84	90 91	L: Scandinavia Y: PX(Far East, Hawaii) V: AAFES(Furona)

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æ	Ref. No	Add- ress	New Parts	Parts No.	0	Description	Desti- nation	Re- marks
D6 -12 D6 -12 D13 14 D13 14	5524			HSS104 1SS133 S5688B 1SR139-100 KBP02ML-6127	DIODE DIODE DIODE DIODE			
D23 D24 D24 D25				HZS30N(B2) RD30ES(B2) 1SS92 1S954 HZS6.8N(B2)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE			
030 030 030 030	24 24 24 24 24 24			RD6.8ES(B2) HSS104A 1SS131 HSS104A 1SS131	ZENER DIODE DIODE DIODE DIODE DIODE			
D35 D41 D41 ED1	36 47 47	μ		HZS6.2N(B2) RD6.2ES(B2) HSS104 1SS133 CM1422MB	ZENER DIODE ZENER DIODE DIODE DIODE INDICATOR TUBE			
<u> 29828</u>			* *	LA9233M LC78621E UPD78044AGF170 BA6198FP NJM4565M	ANALOGUE IC MOS-IC MI-COM IC ANALOGUE IC IC(OP AMP X2)	(OP AMP X2)		
<u> </u>	o			TA8409S TC74HC174AF DTC124ES UN4212 2SA954(L.K)	MOS-IC IC DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	тов		
4 48888				2SB1412F5(Q,R) 2SC2458(Y,GR) 2SC3311A(Q,R) 2SB1167(R,S) 2SB1168(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			
\$0000 0224 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-19		`	2SC2458(Y, GR) 2SC3311A(Q,R) DTC143XU 2SB1412F5(Q,R) DTC113ZS	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	TOR TOR		
Q22 A1		Ť.		UN4219 W02-1114-05	TRANSISTOR OSCILLATING MODILIE (TOTX178)	(TOTX178)		
		:		MECHANISM	ASSY (D	40-1475-05)		
-06		ပ္တင္တစ္က		A10-3202-08 A11-1063-08 A13-3024-08	CHASSIS SUB CHASSIS FRAME	(MAIN) (RIGHT)		
98765		ပ္တစ္တပ္တပ္လ		D10-3555-08 D10-3556-08 D10-3557-08 D10-3558-08 D10-3559-08	SLIDER SLIDER LEVER LEVER LEVER	(MAIN) (CD-TRAY) (CD-TRAY) (TRAY-A) (GUIDE-A)		
25		38		D10-3560-08 D10-3561-08	SLIDER SLIDER	(LIFT) (LOADING)	•	
Y Y (: Scandinavia : PX(Far East : AAFES(Eur	L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)	vaii)	K: USA P: T: Europe E: X: Australia M	P: Canada R: Me E: Europe G: Ge M: Other Areas C: CH	R : Mexico G : Germany C : CHINA A indicates safety critical components	ical compo	nents.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

PARTS LIST

Re- marks										
Desti- nation										
Description	(TOP) (GEAR-A) (CLAMP) (MOTOR)	(BOTTOM-F) (BOTTOM-R) (DISC) (TOP) (LOADING)	(R) (TRAY) (MAIN) (STOCK)	(E/M2.6X5) (5.3X10X1) (2.5X5X1T)	(SW3)	SY (KSS-213B)				
٥	CLAMPER HOLDER BRACKET BRACKET BRACKET	HOLDER ASSY HOLDER ASSY GUIDE GUIDE RAIL	RAIL GUIDE TRAY TRAY	SCREW WASHER WASHER	LEVER SWITCH LEAF SWITCH	MOTOR ASSY MAGNET SUB CHASSIS ASSY SOTOR ASSY PICK-UP ASSY (#				
Parts No.	J11-0804-08 J19-3768-08 J19-3773-08 J19-3774-08 J19-3795-08	J19-3797-08 J19-3798-08 J90-0826-08 J90-0827-08 J90-0828-08	J90-0830-08 J90-0833-08 J99-0570-08 J99-0572-08	N09-3140-08 N19-1401-08 N19-1402-08	S64-0015-08 S74-0038-08	742-0821-05 199-0503-15 A11-1082-08 T42-0817-08 T25-0041-05			 	
Add- New ress Parts	55858	2222£	2000		28.8 28.8	2D,3D 1D 1A 2A 1B		 		
Ref. No	92 93 96 97	99 100 105 107	108 109 200 201	lt-⊃-J	205 206	211 212 DM PU				

SPECIFICATIONS

CD player section

Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)
Frequency response	8 Hz \sim 20 kHz, \pm 1.0 dB
Signal to noise ratio	More than 95 dB
Total harmonic distortion	Less than 0.007 % (at 1 kHz)
Channel separation	More than 90 dB (at 1 kHz)
Wow & Flutter	Unmeasurable Limit
Digital output	
Optical15 dBm ~	-21 dBm (wave length 660 nm)
[General]	
Dimensions	W : 270 mm (10-5/8")
	H: 104 mm (4-1/8")
	D: 320 mm (12-5/8")

Weight (net)3.4 kg (7.5 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.